

What is claimed is:

- 5      1.      A dishwasher, comprising:  
         means for forming a sudsing chamber;  
         a wash fluid recirculation circuit including at least one conduit disposed in  
         a substantially horizontal disposition for feeding wash fluid in a predetermined  
         direction;  
10           at least one washing arm mounted in the chamber and connected to the  
         recirculation circuit;  
         a measuring zone within the conduit and comprising a steadily enlarging  
         flow cross section relative to the conduit; and  
         a turbidity meter mounted in the measuring zone for providing signals  
15           representative of dirt particles in the wash fluid.
2.      The dishwasher of claim 1, wherein the enlarged flow cross section  
         comprises a wash fluid conduit section continuously increasing in the flow  
         direction.
- 20      3.      The dishwasher of claim 2, wherein the enlarged flow cross section  
         constitutes a measuring zone of quieted wash fluid flow wherein wash fluid is  
         transported in a lower plane and gas containing portions of the wash fluid are  
         transported in a plane above the lower plane.
- 25      4.      The dishwasher of claim 3, wherein the enlarged flow cross section of  
         substantially trapezoidal configuration.
5.      The dishwasher of claim 4, wherein the turbidity sensor is mounted in the

widest area of the measuring zone in the lower plane.

6. The dishwasher of claim 1, further comprising a parallel branch conduit for wash fluid and wherein the measuring zone is mounted in the parallel branch conduit.

7. The dishwasher of claim 1, wherein the conduit feed a wash arm in a lower section of the chamber.

8. The dishwasher of claim 1, further comprising a recirculation pump connected to the conduit forwardly of the measuring zone.

9. The dishwasher of claim 1, further comprising a recirculation pump connected to the conduit rearwardly of the measuring zone.